Interior object's description of TP series touch screen

Ⅰ、In TP series touch screen, the interior objects are divided into three types: PSB、PSW、PFW：

PSB means bit object；

PSW means not power drop retentive word object；

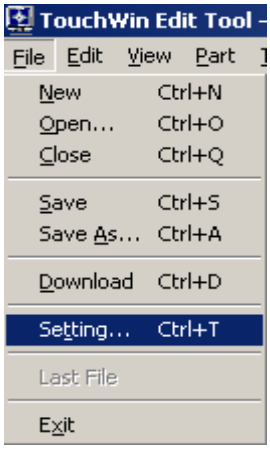
PFW means power drop retentive word object.

1、In the following table, we listed some interior objects' bound for every brand PLC.

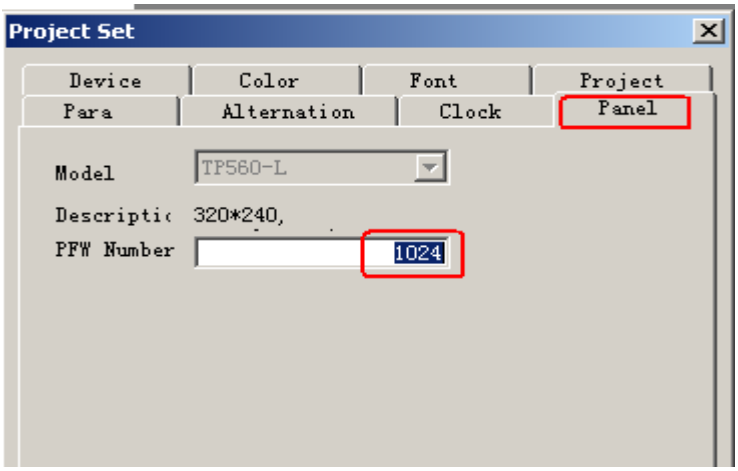
Object \ Model	TP460-L	TP560-L\T	TPA60-L\T
PSB	PSB256~PSB1023		
PSW	PSW256~PSW1023		PSW256~PSW4095
PFW	PFW256~PFW1023		PFW256~PFW4095

2、The bound of PFW could be set, the preceding bound in the table is defaulted by the system. Setting method of PFW is the following：

1）Open "File" -- "Setting…", see following:



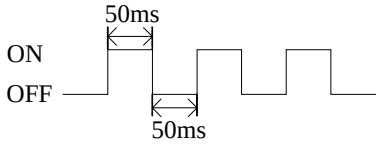
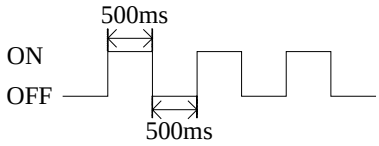
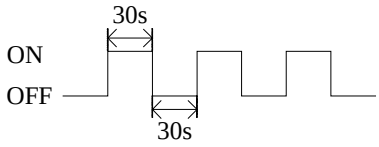
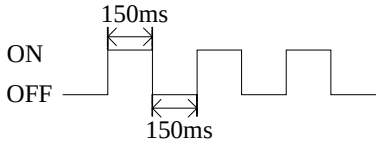
2）Choose "Panel", in this bar, you could modify the number of PFW, see following:



Ⅱ、The first 256（0~255）interior objects are used for special function by the system.

In the following table, we list some system objects' function which are used most frequently.

1、Bit object PSB

Name	Function	Description
PSB0	Normally closed coil	
PSB1	Normally open coil	
PSB2	ON coil, first time scan screen after power-on model	
PSB3	Pulse coil with the cycle of 100ms	
PSB4	Pulse coil with the cycle of 1s	
PSB5	Pulse coil with the cycle of 1minute	
PSB6	Pulse coil with the cycle of 300ms	
PSB10	Common password flag coil	（0：open password　1：close password）
PSB11	Advanced password flag coil	（0：open password　1：close password）
PSB12	System password flag coil	（0：open password　1：close password）
PSB15	Communication failure flag	0：communication successfully 1：communication failure
PSB16	Screen scan once flag successfully	
PSB30	First scan after download	
PSB31	First scan after power on	
PSB39	Close touch screen	

2、Word object PSW

Name	Function	Description
PSW0	Start screen ID	
PSW1	Current screen's ID	
PSW20	Screen's width	（ read only ）
PSW21	Screen's height	（ read only ）
PSW26	Total number of PSB	（ read only ）
PSW27	Total number of PSW	（ read only ）
PSW28	Total number of PFW	（ read only ） Engross PSW28、PSW29
PSW30	Year	(Hex.)（ read only ）
PSW31	Month	(Hex.)（ read only ）
PSW32	Date	(Hex.)（ read only ）
PSW33	Hour	(Hex.)（ read only ）
PSW34	Minute	(Hex.)（ read only ）
PSW35	Second	(Hex.)（ read only ）
PSW36	Week	(Hex.)（ read only ）
PSW40	Recipe index	
PSW54	Device's number	
PSW60	Successful communication times of COM1（Download）	
PSW61	Failed communication times of COM1（Download）	
PSW62	Communication time out times of COM1（Download）	
PSW63	Communication data error times of COM1（Download）	
PSW64	Device's version No. of COM1（Download）	
PSW65	Device's model of COM1 （Download）	
PSW70	Successful communication times of COM2（PLC）	
PSW71	Failed communication times of COM2（PLC）	
PSW72	Communication time out times of COM2（PLC）	
PSW73	Communication data error times of COM2（PLC）	
PSW74	Device's model of COM2（PLC）	
PSW75	Device's model of COM2（PLC）	

Note：PSW60~PSW65 stand the communication status of COM1（Download）when it is used as port to connect with slave model's port.

3、Word object PFW

Name	Function	Description
PFW1	Screen’s ID when power on	
PFW2	Backlight color’s setting	0~255（256 color）
PFW4	Common password	Engross PFW4、PFW5
PFW6	Advanced password	Engross PFW6、PFW7
PFW8	System password	Engross PFW8、PFW9
PFW10	Time of start the screen protection	
PFW11	The displayed screen’s ID when screen protecting	
PFW20	Baud ratio of COM1（Download）	4800、9600、19200、38400、115200、187500
PFW21	Data bit of COM1（Download）	7、8
PFW22	Stop bit of COM1（Download）	0-1 bit, 1-1.5 bits, 2-2 bits
PFW23	Check of COM1（Download）	0-None, 1-Odd, 2-Even
PFW24	Station ID of COM1（Download）	
PFW25	COM1（PLC）sends time delay	Unit：ms
PFW30	Baud ratio of COM2（PLC）	4800、9600、19200、38400、115200、187500
PFW31	Data bit of COM2（PLC）	7、8
PFW32	Stop bit of COM2（PLC）	0-1 bit, 1-1.5 bits, 2-2 bits
PFW33	Check of COM2（PLC）	0-None, 1-Odd, 2-Even
PFW34	Station ID of COM2（PLC）	
PFW35	COM2（PLC）sends time delay	Unit：ms